

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A storage processing device for use in a switched fabric, the switched fabric including at least one switch and the storage processing device, with the storage processing device coupled to the at least one switch, with first and second storage units connected to and coupled through the switched fabric and coupled to the at least one switch and the storage processing device, where the first and second storage units may be directly connected to the storage processing device or may be coupled through the at least one switch, the storage processing device to migrate data from the first storage unit to the second storage unit, whether the first and second storage units are directly connected to the storage processing device or are coupled through the at least one switch the storage processing device comprising:

an input/output module for coupling to the first and second storage units, said input/output module including processors to receive, operate on and transmit network traffic; and

a control module coupled to said input/output module, said input/output module and said control module being configured to interactively perform data migration from the first storage unit to the second storage unit,

wherein said processors delay a data write operation if said data write operation interferes with an ongoing data migration, said delay occurring by said processors holding said data write operation and then completing said data write operation without intervention of said control module.

2. (Previously Presented) The storage processing device of claim 1, wherein said processors include table information related to data migration and wherein said

control module is coupled to said table information to maintain said table information for data migration.

3. (Previously Presented) The storage processing device of claim 2, wherein said table information includes a barrier entry and said processors delay data write operations if said barrier entry relates to said data write operation.

4. (Previously Presented) The storage processing device of claim 2, wherein said table information includes an entry related to the extents in the data migration, said entry defining an extent operation type.

5. (Previously Presented) The storage processing device of claim 4, wherein said table information further includes a legend entry for each extent operation type defining migration operations for the extent.

6. (Original) The storage processing device of claim 5, wherein said table information further includes entries referenced by said legend entry defining physical extent location.

7. (Original) The storage processing device of claim 6, wherein legend entries include entries indicating data not migrated, data migrated and a barrier entry for data being migrated.

8. (Previously Presented) The storage processing device of claim 7, wherein said processors delay data write operations if said barrier entry relates to said data write operation.

9. (Original) The storage processing device of claim 8, wherein said control module provides commands to copy data and places said barrier entry for said data being copied.

10. – 18. (Cancelled)

19. (Currently Amended) A network comprising:
at least one host adapted to be connected to a switched fabric;
at least two storage units, each adapted to be connected to a switched fabric; and
a switched fabric connected to and coupling the at least one host and the at least two storage units, the switched fabric comprising:

~~at least one switch for coupling to the at least one host and the at least two storage units; and~~

a storage processing device coupled to the ~~at least one switch and for coupling to the~~ at least one host and first and second storage units of the at least two storage units, where the first and second storage units may be directly connected to the storage processing device or may be coupled through the at least one switch, the storage processing device to migrate data between the first and second storage units whether the first and second storage units are directly connected to the storage processing device or are coupled through the at least one switch, the storage processing device including:

an input/output module including processors to receive, operate on and transmit network traffic; and

a control module coupled to said input/output module, said input/output module and said control module being configured to interactively perform data migration between the first and second storage units,

~~wherein said processors delay a data write operation if said data write operation interferes with an ongoing data migration, said delay occurring by said processors holding said data write operation and then completing said data write operation without intervention of said control module.~~

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20. (Previously Presented) The network of claim 19, wherein said processors include table information related to data migration and wherein said control module is coupled to said table information to maintain said table information for data migration.

21. (Previously Presented) The network of claim 20, wherein said table information includes a barrier entry and said processors delay data write operations if said barrier entry relates to said data write operation.

22. (Previously Presented) The network of claim 20, wherein said table information includes an entry related to the extents in the data migration, said entry defining an extent operation type.

23. (Previously Presented) The network of claim 22, wherein said table information further includes a legend entry for each extent operation type defining migration operations for the extent.

24. (Original) The network of claim 23, wherein said table information further includes entries referenced by said legend entry defining physical extent location.

25. (Original) The network of claim 24, wherein legend entries include entries indicating data not migrated, data migrated and a barrier entry for data being migrated.

26. (Previously Presented) The network of claim 25, wherein said processors delay data write operations if said barrier entry relates to said data write operation.

27. (Original) The network of claim 26, wherein said control module provides commands to copy data and places said barrier entry for said data being copied.

28. (Currently Amended) A method for supporting data migration between first and second storage units connected to and coupled through a switched fabric, the switched fabric including at least one switch and a storage processing device, the storage processing device coupled to the at least one switch, where the first and second storage units may be directly connected to the storage processing device or may be coupled through the at least one switch, the method comprising in the a storage processing device comprising:

providing an input/output module including processors receiving, operating on and transmitting network traffic; and

providing a control module coupled to said input/output module, said input/output module and said control module being configured to interactively perform data migration between the first and second storage units whether the first and second storage units are directly connected to the storage processing device or are coupled through the at least one switch

wherein the processors delay a data write operation if said data write operation interferes with an ongoing data migration, said delay occurring by the processors holding said data write operation and then completing said data write operation without intervention of said control module.

29. (Previously Presented) The method of claim 28, wherein said processors include table information related to data migration and wherein said control module is coupled to said table information to maintain said table information for data migration.

30. (Previously Presented) The method of claim 29, wherein said table information includes a barrier entry and said processors delay data write operations if said barrier entry relates to said data write operation.

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31. (Previously Presented) The method of claim 29, wherein said table information includes an entry related to the extents in the data migration, said entry defining an extent operation type.

32. (Previously Presented) The method of claim 31, wherein said table information further includes a legend entry for each extent operation type defining migration operations for the extent.

33. (Original) The method of claim 32, wherein said table information further includes entries referenced by said legend entry defining physical extent location.

34. (Original) The method of claim 33, wherein legend entries include entries indicating data not migrated, data migrated and a barrier entry for data being migrated.

35. (Previously Presented) The method of claim 34, wherein said processors delay data write operations if said barrier entry relates to said data write operation.

36. (Original) The method of claim 35, wherein said control module provides commands to copy data and places said barrier entry for said data being copied.

37. (New) A network device comprising:
a fast path module for coupling to first and second storage units, said fast path module including a plurality of processors for receiving, operating on and transmitting network traffic; and

a control path module coupled to said fast path module, said control module and said fast path module cooperating to interactively perform data migration from the first storage unit to the second storage unit,

wherein said plurality of processors delay a write operation if said write operation interferes with an ongoing data migration, said delay occurring by said plurality of

processors holding said data write operation and then completing said data write operation without intervention of said control module.

38. (New) The network device of claim 37, wherein said processors include table information related to data migration and wherein said control module is coupled to said table information to maintain said table information for data migration.

39. (New) The network device of claim 38, wherein said table information includes a barrier entry and said processors delay data write operations if said barrier entry relates to said data write operation.

40. (New) The network device of claim 38, wherein said table information includes an entry related to the extents in the data migration, said entry defining an extent operation type.

41. (New) The network device of claim 40, wherein said table information further includes a legend entry for each extent operation type defining migration operations for the extent.

42. (New) The network device of claim 41, wherein said table information further includes entries referenced by said legend entry defining physical extent location.

43. (New) The network device of claim 42, wherein legend entries include entries indicating data not migrated, data migrated and a barrier entry for data being migrated.

44. (New) The network device of claim 43, wherein said processors delay data write operations if said barrier entry relates to said data write operation.

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45. (New) The network device of claim 44, wherein said control module provides commands to copy data and places said barrier entry for said data being copied.